

IN THE CLAIMS:

1. (Canceled)

2. (Currently Amended) A diffusion cell comprising a receptor compartment and a donor compartment, wherein the receptor compartment is a single-chambered compartment that includes a first outlet and a second outlet, a diffusion membrane and the donor compartment are positioned over the first outlet, and the second outlet forms a bubble trap and a sampling arm, wherein a bottom surface of the diffusion membrane forms at least a portion of the top surface of the receptor compartment and the first outlet of the receptor chamber is formed such that the portion of the top surface of the receptor compartment formed by the bottom surface of the diffusion membrane inclines upward toward the second outlet, and wherein the first outlet and the second outlet are formed at the top surface of the receptor compartment and a bubble channel located in the top surface of the receptor extends between the first and second outlet.

3. (Canceled).

4. (Canceled).

5. (Canceled).

6. (Canceled)

7. (Currently Amended) A diffusion cell comprising a receptor compartment and a donor compartment, wherein the receptor compartment is a single-chambered compartment that includes a first outlet and a second outlet, a diffusion membrane and the donor compartment are positioned over the first outlet, and the second outlet forms a bubble trap and a sampling arm, wherein the receptor compartment includes a top surface, the first outlet and the second outlet are formed in the top surface, and a bubble channel located in the top surface extends between the first and second outlet.

8. (Previously Presented) The diffusion cell of claim 7, wherein the diffusion cell is formed of a top section and a bottom section and the top and bottom sections are separable.

9. (Previously Presented) The diffusion cell of claim 8, wherein the top section of the diffusion cell comprises the first outlet of the receptor compartment.

10. (Previously Presented) The diffusion cell of claim 9, wherein the top section of the diffusion cell comprises the first outlet and the second outlet of the receptor compartment.

11. (Previously Presented) The diffusion cell of claim 2, wherein the diffusion cell is formed of a top section and a bottom section and the top and bottom sections are separable.

12. (Previously Presented) The diffusion cell of claim 11, wherein the top section of the diffusion cell comprises the first outlet of the receptor compartment.

13. (Previously Presented) The diffusion cell of claim 12, wherein the top section of the diffusion cell comprises the first outlet and the second outlet of the receptor compartment.

14. (Currently Amended) A diffusion cell comprising
a receptor compartment, which is a single-chambered compartment that includes a first outlet and a second outlet that are located in the top surface of the receptor compartment;
a diffusion membrane and a donor compartment, which are positioned over the first outlet; and

means for removing bubbles located in the top surface extending between the first and the second outlets.

15. (Previously Presented) The diffusion cell of claim 14, wherein the means for removing bubbles comprises a channel.

16. (Currently Amended) The diffusion cell of claim 15, wherein the means for removing bubbles further comprises an incline upward toward the second outlet.

17. (Canceled)

18. (Canceled)

19. (Canceled)